

SEREDYUCHENKO, D.P.

35917 SEREDYUCHENKO, D.P. i DOBROTVORSKAYA, L.V.
O nekotorykh mineral'nykh novoobrazovaniyakh V osadochnykh
porodakh. doklady akad. nauk sssr, novaya seriya, t.
lxix, No. 3, 1949, S. 421-24- bibliogr: c. 424

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

ZAPOL'SKIY, V., kand. arkhitektury; SEREDYUK, I., kand. arkhitektury;
SHVEIS, Ya., arkhitektor

Built-in cabinets and storage walls for apartments. Thil.
stroil. no.2*15-22 '64. (MIRA 18:11)

SEREDYUK, I., arkhitektor

Some economic aspects of furniture making. Zhil. stroi. no.2:22-
24 F '61.

(MIRA 14:1)

(Furniture)

RUDNITSKIY, A., kand. arkhitektury; SEREDYUK, I., arkhitektor; SKUBCHENKO, G.,
arkhitektor

Maintenance of buildings of few stories. Zhil. stroi. no.6:21-24
'59. (MIRA 12:10)
(Lvov--Apartment houses--Maintenance and repair)

CHERNIN, L.B. (L'vov); SEREDYUK, I.I. (L'vov)

Ventilation of apartments with gas service in modern domestic
architecture. Vod.i san.tekh. no.7:12-15 J1 '59.
(MIRA 12:9)

(Dwellings--Heating and ventilation)

KHIMICH, N.I.; SEREDYUK, I.I.

Standardizing parts and units of furniture. Der. prom. 12
no.3:47 Mr '63. (MIRA 16:5)

1. Upravleniye derevoobrabatyvayushchey i bumazhnoy promyshlennosti
L'vovskogo soveta narodnogo khozyaystva (for Khimich). 2. L'vovskiy
politekhnicheskyy institut (for Seredyuk).
(Furniture industry)

RUDNITSKIY, A.M.; SEREDYUK, I.I.; SEREDYUK, S.P.

Modern city building and geography. Vest. Mosk. un. Ser. 5:
Geog. 20 no.5:41-46 S-O '65. (MIRA 18:12)

1. L'vovskiy gosudarstvennyy universitet. Submitted February 5,
1965.

RUDNITSKIY, A.M.; SEREDYUK, I.I.; SEREDYUK, S.P.

Modern city building and geography. Vest. Mosk. un. Ser. 5:
Geog. 20 no.5:41-46 S-O '65. (MIRA 18:12)

1. L'vovskiy gosudarstvennyy universitet. Submitted February 5,
1965.

L 09058-67 EWT(m)/T/EWP(t)/ETI IJP(o) JD
ACC NR: AP6031991 SOURCE CODE: UR/0386/66/004/005/0196/0200

AUTHOR: Aleksandrov, Yu. A.; Samosvat, G. B.; Sereeter Zh.; Tacy Gen Sor

ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Scattering of kilovolt neutrons by lead and electric polarizability of the neutron

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 5, 1966, 196-200

TOPIC TAGS: neutron scattering, neutron polarization, lead, neutron spectroscopy

ABSTRACT: This is a continuation of earlier work by the authors (Preprint OIYaI, R-2495, Dubna 1965 and elsewhere) on neutron scattering by lead at neutron energies down to 7.5 kev, where it was indicated that the estimate $\alpha_n \leq 20 \times 10^{-42} \text{ cm}^3$ for the neutron electric polarizability coefficient, previously obtained by R. M. Thaler (Phys. Rev. v. 114, 827, 1965) in scattering by uranium, can be appreciably lowered. Lead was chosen in the present investigation because it has no strong neutron resonances in the investigated energy range up to 26 kev, thus avoiding the ambiguity connected with neglecting the role of the resonances. The measurements were made with the OIYaI pulsed reactor by the time-of-flight method with a 250 m base and with an energy resolution ranging from 20% at 1 kev to 100% at 26 kev. The effective energy was determined at each point by numerical integration with account of the re-

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ACC NR: AP6031991

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solution function, the neutron spectrum, and the energy sensitivity of the detectors. A total of 180 proportional boron counters (type SNMO-5) were used as detectors. The intensity of the neutrons scattered by a hollow lead cylinder of 10 cm diameter and 1 cm wall thickness was measured simultaneously at all energies and 9 values of the scattering angle from 30 to 150°. Reduction of the experimental data yielded the estimate $\alpha_n = (0.3 \pm 9.2) \times 10^{-42} \text{ cm}^3$. A more accurate estimate of the polarizability is obtained by simultaneous reduction of the present data and published data on scattering by lead in the 50 - 160 kev interval. Such a reduction yields $\alpha_n = (0.7 \pm 5.4) \times 10^{-42} \text{ cm}^3$. It is thus concluded that, with a probability ~68%, the values of α_n range between -4.7 and 6.1 ($\times 10^{-42}$) cm^3 and are of the same order of magnitude as the theoretically expected value $(1 - 2) \times 10^{-42} \text{ cm}^3$. The authors thank F. L. Shapiro for interest in the work and useful discussions, and A. A. Loshkarev for help with the measurements. Orig. art. has: 2 figures and 4 formulas.

SUB CODE: 20/ SUBM DATE: 10Jun66/ ORIG REF: 005/ OTH REF: 004

Cord 2/2 nst

NAZAROV, S.I.; TENKEVICH, Ye.B.; IL'YASHCHENKO, L.F.; YERMOLOV, S.M.; DEMIN,
M.P.; KRUPIN, A.K.; RYTOV, B.S.; SERGEYEV, A.S., docent

Survey of dissertations on the problems of flaw detection.

Defektoskopia no.1: 4-96 '65.

(MIRA 18:6)

1. Moskovskaya vyssheya tekhnicheskoye uchilishche imeni Bauman
(for Nazarov, Pankevich). 2. Moskovskiy oblastnoy pedagogicheskiy
institut (for Il'yashchenko). 3. Tsentral'nyy nauchno-issledovatel'skiy
institut tekhnologii mashinostroyeniya (for Yermolov, Demin).
4. Moskovskiy institut stal i spлавov (for Krupin).

ASBOTH, Tibor; JANCOSK, Ferenc; SEREGI, Ferenc

Expressing the interoperational time through the regressive
analysis of the correlation between the interoperational time
and certain factors of technological specifications. Gepgyartastechn
4 no. 3:109-116 Mr '64.

1. Department of Industrial Economics, Budapest University of
Technical Sciences (for Jancsok).

SEREGI, Gyorgy

Prefabricated aluminum thin-shell protecting roof. Musz elet 15 no.23:
11 N '60.

(EEAI 10:1)

(Roofs) (Aluminum)

KELECZENYI, Zoltan; SEREGI, Gyorgy

Aluminum structures in the building industry. *Műsz. élet* 16 no.9:1,11
Ap '61. (EEAI 10:6)

(Hungary--Building materials) (Aluminum)

SEFEGI, György, okleveles mernök

Exhibition hall with aluminum structure. Magyar ipar 12 no.11/12:519-523
'63.

SEREGI, Janos, okleveles banyamernok

The Oroszlany coal mines are 25 years old. Bany lap 97
no.4:217-219 Ap '64.

1. Director, Oroszlany Coal Mining Enterprise.

HUNGARY

LASZLO, Janos, Dr, GYORY, Gyorgy, Dr, technical assistant: SEREGI, Janos (Mrs); Institute of Postgraduate Medical Education (director in charge: KADAR, Tibor, Dr), I. Department of Obstetrics-Gynecology (chairman: GYORY, Gyorgy, Dr) (Orvostovábbképző Intézet, I. Szülészeti és Nőgyógyászati Tanszék), Budapest.

"Gonadal Hypoplasia with Chromosomal Aberration."

Budapest, Orvosi Hetilap, Vol 107, No 45, 6 Nov 66, pages 2136-2139.

Abstract: [Authors' Hungarian summary] In a case of gonadal hypoplasia accompanied by general infantilism, vaginal aplasia, osteoporosis, amenorrhea, 45 chromosomes were noted in five and a ring chromosome in one of a total of 50 chromosomal divisions examined. In the presence of chromatin positivity, the chromosomal picture is that of 46/XX + 45/XO mosaicism. The occurrence of ring chromosomes in gonadal dysgenesis is very rarely reported; similar data in the case of gonadal hypoplasia could not be found by the authors. Attention is called to the fact that a differential diagnosis between gonadal dysgenesis and gonadal hypoplasia can only be made by laparotomy and histological examination of the tissue obtained by biopsy. In the authors' opinion, the uncertainties apparent in the pathological and clinical descriptions of gonadal dysgenesis is the result of inaccurate diagnosis because of the lack of histological examinations. All 23 references are Western.

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SEREGIN, A., inzhener.

Fluorine. Tekh.mol. 22 no.8:8-9 Ag '54. (MLRA 7:8)
(Fluorine)

SEREGIN, A., aviatekhnika (Voronezh)

Hydrodynamometer for testing the strength of anchor fastenings
of airplanes. Grazhd. av. 12 no.11:14 N '55. (MIRA 15:9)
(Aeronautics--Safety measures)

DANILOV, N., zasl. zootekhnik RSFSR; SEREGIN, A.; SOKOLAN, A., otv.
za vypusk; GORYACHENKO, F., tekhn. red.

[Five poods of meat from one duck] Piat' pudov miasa ot odnoi
utki. Kishinev, Izd-vo sel'khoz.lit-ry MSKh MSSR, 1962. 10 p.
(MIRA 15:6)

(Moldavia--Ducks)

SEREGIN, A.A.; KOSTIKOV, V.U.; PONOMAREV, A.A.; SHEVCHUK, R.M.

Professor Pavel Andreevich Azbukin; on his 75th birthday and
50th anniversary of scientific and pedagogical work. Avtom. elem.
i sviaz' no.7:40-41 J1 '57. (MLRA 10:8)

1. Nachal'nik Tomskego elektromekhanicheskogo instituta inzhenerov
zheleznodorozhnogo transporta (for Seregin) 2. Sotrudniki Tomskego
elektromekhanicheskogo instituta inzhenerov zheleznodorozhnogo
transporta (for Kostinov, Ponomarev, Shevchuk)
(Azbukin, Pavel Andreevich, 1882-)

SEREGIN, Andrey Georgiyevich; SMIRNOVA, A., redaktor; KIRSANOVA, N.
~~tekhnicheskii~~ redaktor.

[At our mechanical bakery] Na nashem khlebozavode. [Moskva]
Izd-vo VTsSPS Profizdat, 1954. 43 p. (MLRA 8:8)
(Bakers and bakeries)

SEREGIN, A. M., Cand Geol-Min Sci -- (diss) "Jurassic and Lower
Cretaceous Deposits of Eastern ^{Pre}~~Cis~~ Caucasasia in Relation to Their
(Petroleum Gas) ^{Quality}
~~Oil~~ Bearing [^] Mos, 1957. 20 pp (Mos Order of Lenin and Order of
Labor Red Banner State Univ im M. V. Lomonos^o_v, Geological Faculty,
Chair of Geology and Geochemistry of Combustible ^{Minerals}~~Mining Products~~),
120 copies (KL, 49-57, 111)

KONYUKHOV, I.A.; BURLIN, Yu.K.; SEREGIN, A.M.

Lower Cretaceous sediments in the Northern Caucasus and their
lithological and facies changes. Geol. zhurn 2 no.4:49-56 Ap
'58. (MIRA 11:5)
(Caucasus, Northern--Geology, Stratigraphic)

KUPRIN, P.N.; NESMEYANOV, D.V.; SEREGIN, A.M.; BROD, I.O., prof., doktor
geologo-mineral.nauk, red.; MISHUNINA, Z.A., nauchnyy red.;
SEGAL', Z.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Transactions of the General Southern Geological Expedition]. Trudy
Kompleksnoi iuzhnoi geologicheskoi ekspeditsii. Pod red. I.O.Broda.
Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry.
Leningr.otd-nis. No.4. [Geology and oil and gas potentials of the
southern U.S.S.R.; Daghestan] Geologiya i neftegazonosnost' IUGa
SSSR; Dagestan. 1959. 431 p. (MIRA 13:5)

1. Kompleksnaya yuzhnaya geologicheskaya ekspeditsiya, 1956-.
2. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(for Kuprin, Nesmeyanov, Seregin). 3. Kompleksnaya yuzhnaya geo-
logicheskaya ekspeditsiya (KYUGE) AN SSSR (for Nesmeyanov).
(Daghestan--Petroleum geology)
(Daghestan--Gas, Natural--Geology)

SEREGIN, A.M.; FLOROVSKAYA, V.N.; MOSKALEV, N.P.; PRYAKHINA, Yu.A.;
NAZAREVICH, I.A.

Anniversary of Professors I.A.Koniukhov. Vest.Mosk.un.Ser.4:
Geol. 17 no.1:79-80 Jan-F '62. (MIRA 15:2)
(Koniukhov, Ivan Aleksandrovich, 1911-)

SEREGIN, A.M.; BAZHENOVA, T.K.; VYSOTSKIY, V.I.; JIYUKHIN, L.N.; SHAPVALOV,
V.D.

Oil-source and reservoir properties of the Cambrian sediments
of the Yenisey part of the Siberian Platform. Izv. vys. ucheb.
zav.; nef't i gaz 7 no.9:11-13 '64. (MIRA 17:12)

1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.

BAZHENOVA, T.K.; VYSOTSKIY, V.I.; SEREGIN, A.M.

Comparative evaluation of the prospects for finding gas and
oil in the Yenisey portion of the Siberian Platform. Geol.
nefti i gaza 8 no.8:15-19 Ag '64. (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet.

SEREGIN, A.P.; MAKLAKOV, P.A.

Additional potentials for increasing and improving leather and shoe resources during the period from 1959 to 1965 D '60.

(MIRA 14:1)

(Leather industry) (Shoe industry)

VASIL'YEV, Ye.N.; SEREGINA, A.R.

Excitation of a thick cylinder with finite length. Radiotekh. i
elektron. 8 no.12:1972-1979 D '63. (MIRA 16:12)

ANDREYEV, Vladimir Vladimirovich; SEREGIN, Aleksandr Sergeyevich;
MAKEYEV, V.S., red.; GORDEYCHIK, G.M., red.; MEDVEDEV,
L.Ya., tekhn.red.

[The MT-100-L scutching and hackling machine] Mial'no-
trepal'nyi agregat MT-100-L. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po legkoi promyshl., 1958. 68 p. (MIRA 12:6)
(Flax processing machinery)

SEREGIN, A.S.

ANDREYEV, V.V.; SEREGIN, A.S.; MAKEYEVA, V.S., red.; GORDEYCHIK, G.M., red.;
KOGAN, V.V., tekhn.red.

[KP-100-L flax processing machine] Kudeleprigotovitel'naia mashina
KP-100-L. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi
promyshl., 1958. 77 p. (MIRA 11:4)
(Flax) (Textile machinery)

SEREGIN, A. V.

"Coagulation in Coarse Dispersed Suspensions." Sub 23 Mar 51,
Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in
Moscow during 1951.

30: Sum. No. 480, 9 May 55

SEREQIN, A V

USSR

✓ The mechanism of the action of electrolytes on coarse suspensions. N. A. Pizurovskii and A. V. Seredin (M. V. Lomonosov State Univ., Moscow). *Kolloid. Zhur.* 17, 140-6 (1955).—The frequency distribution (detd. sedimentometrically) of suspensions of glass powder (with the most frequent diam. $d = 7 \mu$), BaSO_4 ($d = 15 \mu$), and Al_2O_3 ($d = 14 \mu$) was shifted toward coarser particles by electrolytes (HCl , NaOH , NaCl , and AlCl_3 for glass, and AlCl_3 only for BaSO_4 and Al_2O_3). However, as long as the electrolyte concn. was small, the initial size distribution was almost restored on standing for a few hrs. No restoration occurred, however, in 0.015M HCl and in 0.33M NaOH (for glass). Presumably, the restoration is caused by the mutual repulsion of elec. double layers on those parts of the solid surfaces that were less affected by the electrolyte added. Also in *Colloid J.* 17, 127-31 (1955) (Engl. translation).
T. I. Bikerman

SEREGIN, A. V.

✓ Effect of orthokinetic coagulation on the destruction of coarse suspensions. A. V. Seregin and N. A. Figurovskii (M. V. Lomonosov State Univ. Moscow). *Kolloid. Zhur.* 17, 247-54 (1955).—Following Tuorila (*C.A.* 21, 2831), an equation was derived for calcg. the rate of orthokinetic coagulation, if the size distribution of the original suspension, the ratio of the masses of a fine fraction before and after coagulation, and the sedimentation time of a medium fraction are known. The equation was confirmed for 3 glass suspensions during both rapid and slow coagulation by BaCl_2 . Also in *Colloid J. U.S.S.R.* 17, 225-31 (1955) (Engl. translation). J. J. Bikerman

PHASE I BOOK EXPLOITATION

964

Seregin, Andrey Vasil'yevich, Candidate of Chemical Sciences

Goryucheye dlya dvigateley (Motor Fuels) Moscow, Voen. izd-vo
M-va obor. SSSR, 1958. 135 p. (Series: Nauchno-populyarnaya
biblioteka) No. of copies printed not given.

Ed.: Konkin, P. I., Colonel; Tech. Ed.: Sokolova, G.F.

PURPOSE: The booklet is intended for soldiers and sailors of the
Soviet armed forces.

COVERAGE: The booklet briefly describes in popular form the pro-
duction and properties of liquid fuels used in internal combustion
and rocket engines, and also the properties of atomic and nuclear
fuels and the prospects of their utilization in engines. It also
gives a brief historical survey of the development of engines and
fuels. Sections 4, 6 and 7 of Chapter IV and section 5 of
Chapter V contain data from foreign publications. No personalities
are mentioned. There are no references.

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PHASE I BOOK EXPLOITATION

SOV/6126

Seregin, Andrey Vasil'yevich

Zhidkiye raketnyye topliva (Liquid Rocket Fuels). Moscow, Voenizdat, 1962. 90 p. 19,000 copies printed.

Ed.: D. D. Kulinich; Tech. Ed.: N. V. Sribnis.

PURPOSE: This booklet is intended for noncommissioned officers, enlisted men, and the general reader.

COVERAGE: The basic properties of liquid rocket fuels and their application to liquid rocket engines are presented. Thermodynamic and ballistic estimates of the effectiveness of rocket propellants; gas-pressure, powder combustion-pressure, turbopump; and liquid-fuel rocket-engine propellant-feed systems; the production, storage, and transportation of liquid oxygen; the prevention of metal corrosion by nitric-acid oxidizers; and propellants based on liquid oxygen, nitric-acid oxidizer, and hydrogen peroxide are discussed. Information on prospective liquid-ozone, fluorine, and tetranitromethane oxidizers and on boron hydrides and free radicals as prospective fuels is included. No personalities are mentioned. The booklet

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SEREGIN, D.F.

YEREMINA, A.I.; SEREGIN, D.F.

Result of the treatment of epitheliomas of the eyelids with Gordeev's solution. Vest. oft., Moskva 31 no. 4:28-30 July-Aug. 1952.
(GLML 22:5)

1. Of the Eye Division (Head -- D. F. Seregin), Kalinigrad Oblast Hospital.

GOLOSHCHAPOV, N.N. (g.Yelets); KATON'KO, Ye.S.; BOROVKOV, I.I.; SEREGIN,
D.V.

Useful suggestions. Fiz. v shkole 20 no.5:87 S-O '60. (MIRA 13:11)

1. 1-y srednyaya shkola, Kamenets-Podol'sk (for Katon'ko); 2. 25-ya
srednyaya shkola, g. Vorkuta (for Borovkov). 3. Breytovskaya sredn-
yaya shkola Yaroslavskoy oblasti (for Seregin).
(Physics—Study and teaching)

KOLESOV, V.P.; SEREGIN, E.A.; SKURATOV, S.M.

Adiabatic calorimeter of small volume for the determination of true heat capacities within the temperature range of 12 to 340°K. Zhur. fiz. khim. 36 no.3:647-651 Mr '62. (MIRA 17:8)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

KOLESOV, V.P.; PAUKOV, I.Ye.; SKURATOV, S.M.; Prinimali uchastiye:
FUN SHI-YAN'; SEREGIN, E.A.

Variation of the isobaric and isothermal potential in the
polymerization of lactams under standardized conditions. Zhur.
fiz. khim. 36 no.4:770-779 Ap '62. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Lactams—Thermal properties) (Polymerization)

SEREGIN, E.A.; KOLESOV, V.P.; BELIKOVA, N.A.; SKURATOV, S.M.; PLATE, A.F.

Heat capacity at low temperatures and thermodynamic functions
of endo- and exo-2-cyano-bicyclo-(2,2,1)-heptane. Dokl.AN SSSR
145 no.3:580-583 J1 '62. (MIRA 15:7)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
Predstavleno akademikom B.A.Kazanskim.
(Bicycloheptane) (Heat capacity)

SENESIN, E.A.; GOROSHKO, N.N.; KOLESOV, V.P.; BELIZOVA, N.A.; SKURATOV,
E.M.; PLATE, A.F.

Heat capacity at low temperatures and the thermodynamic functions
of endo- and exo-2-methyl-bicyclo-(2,2,1)-heptanes. Dokl. AN
SSSR 159 no.6:1381-1384 D '64 (MIRA 18:1)

L 11375-67 EWT(1) SCTB DD/GD

ACC NR: AT6036498

SOURCE CODE: UR/0000/66/000/000/0065/0066

AUTHOR: Berezin, I. P.; Seregin, G. I.; Rostovtsev, B. N.

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ORG: none

TITLE: Experimental evidence of the establishment of an oxygen reserve during oxygenation of tissues under high pressure [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 65-66

TOPIC TAGS: hyperoxia, oxygen excess pressure, electroencephalography, animal physiology, tissue oxygen saturation

ABSTRACT: Because existing procedures for theoretical computation of the oxygen reserves created in the organism by excess pressure oxygen breathing are difficult and sometimes imprecise, studies were conducted to determine experimentally the degree of oxygen reserves created in the animal organism under various definite conditions. The duration of continued EEG activity in the brain of rabbits after the cessation of respiration was used as an index of the oxygen reserve. Altogether, 7 series of experiments were conducted on 70 rabbits in an experimental pressurized operating room: the first 4 series studied the duration of continued brain bioelectric activity

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ACC NR: AT6036498

after cut-off of oxygen breathed for 30 min at pressures of 1, 2, 3, and 3.6 at.

The 5th series was conducted at 3 at, but with CO₂ removed from the respiratory tract after external respiration with oxygen was cut off; the 6th series was designed to show the effect of CO₂ on tissue O₂ saturation at 3 at, and the 7th series studied the persistence of brain bioelectric activity when circulation and respiration cease simultaneously.

It was found that brain bioelectric activity in rabbits always persists considerably longer under conditions of pressure oxygen breathing than at normal pressure, and that up to a certain point the persistence of EEG activity increases with increased atmospheric pressures.

The experimental data obtained show that respiration of atmospheres with elevated pO₂ creates considerable oxygen reserves in the tissues, which may serve both therapeutic as well as other medical and biological purposes. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2 egk

SEREDINA, Ye., metodist

The best council on culture. Prom.koop. 14 no.9:7 S '60.
(MIRA 13:9)

1. Kul'tbaza oblpromsoveta, g.Tyumen'.
(Tyumen'--Industrial recreation)

KOMAROV, N.N.; KUZ'MENKO, M.D.; SEREDKIN, A.A.

Measurements of the ionization state of the free atmosphere during
an anticyclone. Izv.AN SSSR.Ser.geofiz. no.10:1534-1540 0 '60.
(MIRA 13:9)

1. Akademiya nauk SSSR, Institut prikladnoy geofiziki.
(Air, Ionized) (Cyclones)

5(4)

SOV/20-128-1-35/58

AUTHORS: Kolesov, V. P., Paukov, I. Ye., Skuratov, S. M., Seregin, E. A.

TITLE: The Standard Entropies of Some Lactams

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 130-132 (USSR)

ABSTRACT: In spite of the numerous papers recently written on the measurement of the real specific heat of substances at low temperatures, data for organic substances are as yet rather sparse. Whereas the alkanes and alkenes have been investigated somewhat more thoroughly, data for heterocyclic compounds are lacking completely. Calculation of entropies according to semiempiric formulas (Refs 1-3) gives inexact values. The authors speak about measurements of specific heat at low temperatures (60 - 350°K) and of the melting heat of the following lactams: α -pyrrolidone, α -piperidone, ϵ -caprolactam, and ζ -oenanthole-lactam. The synthesis and purification of these compounds was carried out by N. F. Yerofeyeva and V. H. Topchebasheva at the Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute for Artificial Fibers). Table 1 shows the measuring

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The Standard Entropies of Some Lactams

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results, figure 2 the variation of specific heat with temperature. This variation is nearly linear, within the temperature interval measured, with different inclination towards the abscissa axis in the case of individual compounds. Table 2 mentions the melting temperatures and melting heats of the lactams investigated. For calculation of the absolute entropies, the curves of the specific heats were extrapolated from 60°K to 0°K by means of equations composed of Debye- and Einstein functions. These equations satisfy the experimental data within the interval of 60 - 170°K. Table 3 gives the absolute entropy standards of the solid lactams at 298.16°K and of liquid lactams at 350°K. There are 1 figure, 3 tables, and 5 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: May 13, 1959, by P. A. Rebinder, Academician

Card 2/3

SEREGIN, I.

"Awakening of Africa." Piero Tedeschi; "Peoples of Tunisia, Algeria, and Morocco in the fight for independence." S. Datlin. Reviewed by I. Seregin. Prof.soluzy 8 no.7:60-62 J1 '53. (MLRA 6:6)
(Tedeschi, Piero) (Datlin, S.) (Africa--Social conditions)

DUBOVIK, V.N., st. преподаv.; MAMIN, A.U., kand. geol.-miner. nauk, dots.; OTTO, P.I.; RUMYANTSEVA, A.Ya., kand. geogr. nauk, ispolnyayushchiy obyazannosti dots.; SEREGIN, I.A., st. inzh.; MOSKALEV, A.F.; KOLESNIKOV, B.P., prof., doktor biol. nauk, rektor; OKOROKOV, V.I., kand. biol. nauk, dots.; KLIMENKO, R.A.; STARIKOVA, L.A., assistant; SHUMILOVA, V.Ya., assistant; MAKSIMOVA, Ye.A., dots.; KIRIN, F.Ya., kand. geogr. nauk, dots.; KUZNETSOVA, A.V., red.; MATVEYEV, S.M., red.; MOROZOV, V.K., red.; RUTKOVSKIY, I.M., red.; TYAZHEL'NIKOV, Ye.M., red.

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2. Nachal'nik geologicheskogo otdela Chelyabinskogo geologorazvedochnogo tresta (for Otto).
3. Chelyabinskaya gidrologicheskayastantsiya (for Seregin).
4. Nachal'nik pochvennoy partii Chelyabinskoy zemleustroitel'noy ekspeditsii (for Moskaev).
5. Institut biologii Ural'skogo filiala AN SSSR (for Kolesnikov).
6. Kafedra zoologii Chelyabinskogo pedagogicheskogo instituta (for Okorokov, Starikova, Shumilova).
7. Chelyabinskiy rybnyy trest (for Klimenko).

BELOV, N.D.; RAKHLIN, I.Ye.; ALESHIN, L.I.; SEREGIN, I.I.; POGODIN, A.I.; PONTYAR, A.A.; PETRUKHOV, P.I., red.

[Georgievskaya Highway with track pavement made of reinforced concrete slabs in the Belozersk Logging Enterprise of Vologda Province] Georgievskaya avtomobil'naya doroga s koleinym pokrytiem iz zhelezobetonnykh plit v Belozerskom lespromkhozе Vologodskoi oblasti. Vologda, Severo-Zapadnoe knizhnoe izd-vo, 1964. 36 p. (MIRA 18:5)

1. Nauchno-tekhnicheskoye obshchestvo lesnoy promyshlennosti i lesnogo khozyaystva. Vologodskoye oblastnoye pravleniye.
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SEREGIN, I.K.

Automatic recording of flashes. Bezop.truda v prom. 6 no.4:33
Ap '62. (MIRA 15:5)
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The life of beam bridge spans. Avt.dor.17 no.1:26-27 J1-Ag'54.
(Bridge construction) (MIRA 8:10)

YERIN, Boris Gerasimovich; OZE, Sergey Edgarovich; SEREGIN, Ivan Nazarovich.
CHARUYSKIY, A.P., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskii re-
daktor.

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dorozhnykh mostov. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry,
1955. 209 p. (Bridges--Repairing) (MLRA 9:6)

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kandidat tekhnicheskikh nauk; SEREGIN, I.N., inzhener

A radical improvement in the quality of precast reinforced
concrete bridges is needed. Avt. dor. 18 no.3:5-7 My-Je
55. (MLRA 8:9)

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DONCHENKO, V.G.; SEREGIN, I.N.; ZAKHAROV, L.A.

Cracks along clusters of prestressed reinforcements in bridges.

Avt.dor. 20 no.12:8-10 D '57.

(MIRA 12:4)

(Prestressed concrete construction) (Bridges, Concrete)

SEREGIN, I.N., ANUFRIYEV, V.I., IVANOV, F.M.

Technology of one-stage injection into channels with prestressed
reinforcements. Avt. dor. 21 no. 7:18-19 J1 '58. (MIRA 11:8)
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Using inductive indicators in controlling plastic deformations in
concrete. Avt.dor. 21 no.10:12-13 0 '58. (MIRA 11:11)
(Strains and stresses)

BYCHENKOV, Yuriy Dmitriyevich, mladshiy nauchnyy sotrudnik; SEREGIN, I.N..
Prinimali uchastiye: KOLOMENSKIY, A.P., inzh.; STOYAROV, M.P.,
inzh.; VILIN, N.G., inzh.; VALYUS, V.M., inzh.; BOCHMAN, G.P.,
tekhn. YKRIN, B.G., red.; SERGEYEV, A.F., red.izd-va; DONSKAYA,
G.D., tekhn.red.

[Investigating the performance of stretching equipment and cone-
type anchorages] Issledovanie raboty natiazhnogo oborudovaniia
i konusnykh ankerov. Moskva, Nauchno-tekhn.izd-vo M-va avtomo-
bil'nogo transp. i shosseinykh dorog RSFSR, 1959. 27 p.

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1. Nachal'nik laboratorii zhelezobetonnykh konstruksiy Gosudarstven-
nogo Vsesoyuznogo dorozhnogo nauchno-issledovatel'skogo instituta
(SOYUZZDORNII) (for Seregin).
(Prestressed concrete)

MATAROV, Ivan Aleksandrovich, kand.tekhn.nauk; SMIRNOVA, Lidiya Semenovna,
/ inzh.; SHILINA, Anna Lukinichna, inzh.; SEREGIN, I.N., inzh.;
MAL'KOVA, N.V., tekhn.red.

[Precast reinforced concrete bridges with multiple-row welded bars]
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Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shossei-
nykh dorog RSFSR, 1959. 188 p. (MIRA 12:4)
(Bridges) (Reinforced concrete)

SEREGIN, Ivan Nazarovich; ANUFRIYEV, Viktor Ivanovich; IVANOV, Fedor Mikhaylovich. Prinimali uchastiye: VASYUTA, L.G.; VALYUS, V.M.; VOROB'YEVA, K.G.; ZHAROVA, Ye.P.; NEFEDOVA, Ye.F.; IVANTEYEVA, N.I.; ZUBKOVA, M.S., red.; DONSKAYA, G.D., tekhn.red.

[Injection into channels with stressed reinforcements] In"ektirovanie kanalov s napriazhennoi armaturoi. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog, 1960. 23 p. (MIRA 13:4)

1. Gosudarstvennyy Vsesoyuznyy dorozhnyy nauchno-issledovatel'skiy institut (SOYUZDORNII). (for Vasyuta, Valyus, Vorob'yeva, Zharova, Nefedova, Ivanteyeva).

(Bridges, Concrete)

SEREGIN, I.N.; TUMAS, Ye.V.

Letter to the editor. Avt. dor. 23 no.8:30-31 Ag '60.
(MIRA 13:8)

(Bridges--Design)

SEREGIN, Ivan Nazarovich; PSHENICHNIKOV, Sergey Nikolayevich; ANUFRIYEV,
Viktor Ivanovich; BYCHENKOV, Yuriy Dmitriyevich; TUMAS, Ye.V.,
red.; DONSKAYA, G.D., tekhn.red.

[Technology of building prestressed reinforced concrete bridges]
Tekhnologiya postroiki predvaritel'no napriazhennykh zhelezo-
betonnykh mostov; posobie masteru. Moskva, Nauchno-tekhn.izd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 171 p.
(MIRA 14:4)

(Bridges, Concrete)

OZE, Sergey Edgarovich, inzh.; SEREGIN, Ivan Nazarovich, inzh.;
IVANOVSKAYA, K.M., red.; MAL'KOVA, N.V., tekhn. red.

[Handbook for the master bridge builder] Posobie mostovomu
masteru. Moskva, Avtotransizdat, 1962. 343 p. (MIRA 15:5)
(Bridges--Maintenance and repair)

GENRITSY, Georgiy Yevgen'yevich; SEREGIN, I.N., red.; IVANOVSKAYA, K.M.,
red. izd-va; BODANOVA, A.P., tekhn. red.

[Maintenance and repair of metal bridges] Soderzhanie i tekushchii remont metallicheskih mostov. Moskva, Avtotransizdat, 1963. 35 p. (MIRA 16:3)
(Bridges, Iron and steel--Maintenance and repair)

GIBSHMAN, Ye.Ye., doktor tekhn.nauk; KALASHNIKOV, N.A., kand.tekhn.nauk;
SEREGIN, I.N., inzh.

Make wider use of composite beams in the spans of road
bridges. Transp.stroi. 12 no.7:49-51 J1 '62. (MIRA 16:2)
(Beams and girders) (Bridge construction)

SEREGIN, I.N.; POLYAKOV, N.I.; DUBROVA, Ye.P.; ZIMIN, N.G.

From abroad. Avt.dor. 28 no.11:28 N '65.

(MIRA 18:11)

E 26525-66 EWP(j)/EWT(m)/T/EWP(v) RM/VW

ACC-NR: AP6017410

SOURCE CODE: UR/0097/65/000/006/0028/0031

AUTHOR: Seregin, I. N. (Candidate of technical sciences); Mel'nikov, Yu. L. (Candidate of technical sciences); Zakharov, L. V. (Engineer); Sakanskiy, Yu. N. (Engineer)

ORG: none

TITLE: Glued butt joints in preassembled reinforced concrete span structures

SOURCE: Beton i zhelezobeton, no. 6, 1965, 28-31

TOPIC TAGS: reinforced concrete, highway bridge, railway bridge

ABSTRACT: At the present time, as a result of scientific research work, all the conditions have been created for making wide use of structures attached together lengthwise by glued joints in practical bridge construction. Rational methods have been developed for making butt joints of reinforced concrete elements, as well as methods for designing the component structures with glued joints. An experimental check has been made of several ways of making up preformed blocks for the component structures joined lengthwise.

The technology of making glued joints at positive temperatures has been worked out and tested in building large bridges across the Moscow River at Sherepikha, and the Don River at Rostov. Methods have been worked out for regulating the times required for the glue to act within wide limits. Worked out at the present time, and going through an experimental check under production conditions are ways of producing glued joints at negative temperatures.

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UDC: 691.328:624.21

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A technology has been worked out for hinged mounting of the component structures along the length with glued joints. The rates achieved in mounting are even now a factor of 3-5 in excess of the rates using glued joints, and there is a reduction in the labor required for mounting.

A large amount of experience has been obtained in the field of designing structures joined lengthwise for bridges with large spans, which even now it is possible to develop typical designs for span structures and supports joined lengthwise by glueing and to work out the technology of factory production for the elements of structures of this type. These measures will bring a great reduction in the time required to build bridges, and reduce the amount of labor and the labor cost in construction. Orig. art. has: 3 figures and 1 table. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none

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SEPEGIN, L.N., inzh.

Removal of turbogenerator bracket bindings, Elek. sta. 36 no.9:
83-84 S '65. (MIRA 18:9)

SEREGIN, L. V.

SOV/52-2-4-7/7

A Summary of Papers Presented at the Sessions of the Scientific Research Seminar on the Theory of Probabilities. Moscow, Feb-May 1957.

Teoriya Veroyatnostey i yeye Primeneniya, 1957, v.2, No. 4, pp. 468-488

and $x = L$. If this condition is not fulfilled, then there is a unique solution of Eq.1 taking given values at $t = 0$ and $x = L$.

Yaglom, A.M., Generalized locally homogeneous stochastic fields. The contents of this paper have been published in Vol.2, Nr.3 of this journal. Seregin, L.V., Continuity conditions with unit probability of strictly Markov processes. The results are to be published in this journal.

Yushkevich, A.A., Strong Markov processes. The results were published in Vol.2, Nr.2 of this journal.

Tikhomirov, V., On ε -entropy for certain classes of analytic functions. The contents of this report have been published in Doklady Akademii Nauk, Vol.117, Nr.2, 1957, p.191. Urbanik, K., (Wroclaw), Generalised distributions at a point of generalised stochastic processes. The

generalised stochastic processes are of finite order, i.e. are generalised derivatives of continuous processes. It is proved that the distribution at a point of a generalised

process is uniquely defined. Girsanov, I.V., Strongly

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SOV/42-13-6-19/33

AUTHOR: Seregin, L.V.

TITLE: On Stationary Measures in the Space of Sequences (O statsionarnykh merakh v prostranstve posledovatel'nostey)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 151-154 (USSR)

ABSTRACT: Let Ω_N be the space of all sequence $\{i_k\}$, $k = \dots, -1, 0, +1, \dots$, the elements of which assume the values $0, 1, \dots, N-1$. The set of all sequences, the elements of which with indices $-m$ to $+n$ assume fixed values $i_{-m}, \dots, i_0, \dots, i_n$, is called a cylinder. Let the σ -algebra $\mathcal{A}_N$ be generated by all cylinders. The author considers the measures in the Ω_N defined on $\mathcal{A}_N$. Let the transformation π be defined by $\pi\{i_k\} = \{i_{k-1}\}$. The measure μ is called stationary if $\mu(\pi A) = \mu(A)$ for every $A \in \mathcal{A}_N$. μ is called ergodic if from $A \in \mathcal{A}_N$, $\pi A = A$ there follows $\mu(A) = 0$ or $\mu(\bar{A}) = 0$. Let M_N be the space of all stationary measures on $\mathcal{A}_N$. The author constructs a mapping α of M_N in M_2 with the following properties: 1) between M_N and

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On Stationary Measures in the Space of Sequences SOV/42-13-6-19/33

$\alpha(M_N)$ there is a biunique relation, 2) α is linear,
3) the ergodic measures correspond one to another, 4) to
convergent sequences of measures of M_N there correspond
convergent sequences of measures in $\alpha(M_N)$.

SUBMITTED: May 10, 1957

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AUTHOR: Seregin, L. V.

TITLE: Continuity conditions of stochastic processes

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, v. 6, no. 1, 1961, 3-30

TEXT: Let x_t be a measurable separable stochastic process in the metric space X on the time interval $[0, c]$ $c < \infty$. The author investigates under which conditions almost all trajectories (sample functions) of the process are continuous.

Let $S(U, V)$ be the distance between the sets $U, V \subset X$; let $\mathcal{G}$ be the σ -algebra generated by the open sets of X . Let $\mathcal{A}$ be a system of open sets $U \subset X$ so that:

- 1.) to every $U \in \mathcal{A}$ there exists a $U' \in \mathcal{A}$ so that $S(U, \bar{U}') > 0$ ($\bar{W}$ is the complement of $W \subset X$).
- 2.) If $U \in \mathcal{A}$, $U' \subset U$, U' open, then $U' \in \mathcal{A}$.
- 3.) There exists a sequence $\{Y_n\}$, $Y_n \in \mathcal{A}$ so that to every $U \in \mathcal{A}$ there

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an n for which $U \in \mathcal{U}_n$.

The union of all $U \in \mathcal{U}$ is denoted by $\mathcal{U}$.

Let $\mathcal{L}$ be the system of all random intervals $(a,b) \subset [0,c]$ for which:

- 1.) On every $[a',b'] \subset (a,b)$, x_t is in a $U \in \mathcal{U}$.
- 2.) There exists no $(a'',b'') \supset (a,b)$ with property 1.).

Let

$$L(a,b) = \{x_t \text{ continuous on } (a,b)\},$$

$$M_s = \bigcap_{U \in \mathcal{U}} \bigcup_{n=1}^{\infty} \{x_t \in U \text{ on the interval } (s - \frac{1}{n}, s)\},$$

$$N_s = \bigcap_{U \in \mathcal{U}} \bigcup_{n=1}^{\infty} \{x_t \in U \text{ on the interval } (s, s + \frac{1}{n})\}.$$

Let $\mathcal{L} = \{(a_\alpha, b_\alpha)\}$ and

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$$L_0 = \bigcap_{\alpha} L(a_{\alpha}, b_{\alpha}),$$

$$L_1 = \bigcap_{\alpha} [L(a_{\alpha}, b_{\alpha}) \cap (M_{b_{\alpha}} \cup \{b_{\alpha} = c\})],$$

$$L_2 = \bigcap_{\alpha} [L(a_{\alpha}, b_{\alpha}) \cap (N_{a_{\alpha}} \cup \{a_{\alpha} = 0\}) \cap (M_{b_{\alpha}} \cup \{b_{\alpha} = c\})],$$

$$L = L(0, c).$$

Let furthermore $I = \{x_t \text{ has no discontinuities of second kind}\}$ and

let $K = K_1 \cap K_2$, where

$$K_1 = \bigcap_{t \in (0, c)} [\{ \text{exists } \lim_{s \uparrow t} x_s \in Y \} \cup M_t],$$

$$K_2 = \bigcap_{t \in [0, c)} [\{ \text{exists } \lim_{s \downarrow t} x_s \in Y \} \cup N_t].$$

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Continuity conditions of ...

In the paper processes are considered which satisfy the condition

$P(I) = 1$ or $P(K) = 1$. It is assumed that for every $t \in [0, c)$, $\varepsilon > 0$ and $h \rightarrow +0$

$$P \{ |x_t - x_{t+h}| > \varepsilon \} = O(h). \quad (2)$$

is satisfied.

Chapter I. Conditions for the continuity of the process in a separable space.

Condition $\mathcal{L}(U, V)$ says that

$$\int_0^{c-h} P \{ x_t \in U, x_{t+h} \in V \} dt = O(h), \quad h \rightarrow +0 \quad (U, V \in \mathcal{L}).$$

Condition $\mathcal{L}_0$: $\mathcal{L}(U, V)$ is satisfied for all $U \in \mathcal{O}$, $V \in \mathcal{O}$, if

$\mathcal{G}(U, V) > 0$.

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Condition $\mathcal{L}_1$: $\mathcal{L}(U,V)$ is satisfied for all $U \in \mathcal{U}$, $V \in \mathcal{V}$, if $g(U,V) > 0$.

Condition $\mathcal{L}_2$: $\mathcal{L}(U,V)$ and $\mathcal{L}(V,U)$ are satisfied for all $U \in \mathcal{U}$, $V \in \mathcal{V}$, if $g(U,V) > 0$.

Theorem 1.1: Let $P(K) = 1$ and X -- separable. Then from the condition $\mathcal{L}_1$ it follows that $P(L_0) = 1$.

Theorem 1.2: Let $P(K) = 1$ and X -- separable. Then

I. From $\mathcal{L}_1$ it follows $P(L_1) = 1$.

II. From $\mathcal{L}_2$ it follows $P(L_2) = 1$.

Let $U, V \in \mathcal{V}$. Let $v(U,V)$ be defined as follows: If a sequence of moments

$$0 \leq s_1 < t_1 < s_2 < t_2 < \dots < s_n < t_n \leq c$$

exists so that $x_{s_i} \in U$, $x_{t_i} \in V$, that, however, there is no analogous

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sequence of $2n + 2$ moments, then let $\nu(U, V) = n$.

Theorem 1.3: Let $P(K \cap L_i) = 1$ ($i = 0, 1, 2$), X -- separable,

$M \nu(U, V) < \infty$ for all $U \in \mathcal{U}$, $V \in \mathcal{V}$ which satisfy the condition

$\nu(U, V) > 0$; then $\mathcal{L}_i$ is satisfied.

Chapter II. Other forms of continuity conditions.

Let X be separable, $Y \subset X$ -- open set, $\mathcal{O}$ -- system of all open sets U for which $g(U, \bar{Y}) > 0$. Let $P(I) = 1$. Since $I \subseteq K$, the results of chapter I can be used. They can be strengthened, e. g.:

Condition $\mathcal{L}_0$: To all $x, y \in Y$, $x \neq y$, there exist neighborhoods U, V of x, y such that $\mathcal{L}(U, V)$ is satisfied.

Condition $\mathcal{L}_1$: To every $x \in Y$ and $V \in \mathcal{O}$ ($g(x, V) > 0$) there exists a neighborhood U of x such that $\mathcal{L}(U, V)$ is satisfied.

Theorem 2.2. Let $P(I) = 1$ and let $\mathcal{L}_0$ be satisfied, then $P(L_0) = 1$.

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Theorem 2.3. Let $P(I) = 1$ and let $\tilde{L}_i$ ($i = 1, 2$) be satisfied, then $P(L_1) = 1$.

Theorem 2.5. Let $P(I \cap L_0) = 1$ and to every x and $v \in L$, ($g(x, v) > 0$) there is assumed to exist $M_v(U, v)$ in a certain neighborhood U of x ; then L_0 is satisfied.

Let the separability of X be not assumed.

Condition $\mathcal{H}(U, \varepsilon)$:

$$\int_0^{c-h} P\{x_t \in U, g(x_t, x_{t+h}) > \varepsilon\} dt = o(h), h \rightarrow +0 (U \in L).$$

Condition $\mathcal{M}$: $\mathcal{H}(U, \varepsilon)$ is satisfied for every $U \in \mathcal{U}$ and $\varepsilon > 0$.

Condition $\mathcal{M}(X)$: $\mathcal{H}(X, \varepsilon)$ is satisfied for every $\varepsilon > 0$.

Theorem 2.7. If $P(K) = 1$ and if $\mathcal{M}$ is satisfied, then $P(L_1) = 1$.

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Theorem 2.8. Let $P(K \cap L_1) = 1$ and for arbitrary $U \in \mathcal{O}$ and $\varepsilon > 0$ let $M_{\nu}(U, \varepsilon)$ exist. Then M_1 is satisfied.

Let

$$L^{\varepsilon} = \bigcap_{t \in (0, c)} \left\{ \varphi \left(\lim_{s \uparrow t} x_s, \lim_{s \downarrow t} x_s \right) \leq \varepsilon \right\}.$$

Theorem 2.9. Let $P(I) = 1$. Then

I. In order that $P(L^{\varepsilon}) = 1$, it is sufficient that $M(X, \delta)$ is satisfied for every $\delta > \varepsilon$.

II. In order that $P(L) = 1$, it is sufficient that $M(X)$ is satisfied.

The last section of the chapter is devoted to the criterion $\mathcal{P}$.
(Abstracter's note: The criterion $\mathcal{P}$ is nowhere explicitly defined in the paper).

Chapter III. Markov processes.

Let $P(\dots)$ be a Markov transient function.

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Condition $\mathcal{R}$: If $U \in \mathcal{A}$, $V \in \mathcal{B}$, $g(U, V) > 0$, then for a certain $h > 0$ it holds

$$\sup_{x, s, t} P(s, x, t, U) < 1$$

where $x \in V$; $s, t \in [0, c]$; $0 < t - s \leq h$.

Condition $\mathcal{S}$: If $U \in \mathcal{A}$, $V \in \mathcal{B}$, $g(U, V) > 0$, then for $h \rightarrow +0$ it holds

$$\sup_{x, s, t} P(s, x, t, V) = o(1)$$

where $x \in U$; $s, t \in [0, c]$; $0 < t - s \leq L$.

Condition $\mathcal{Q}$: Conditions $\mathcal{R}$ and $\mathcal{S}$ are satisfied.

Condition $\mathcal{V}$: For every $\varepsilon > 0$ and $h \rightarrow +0$ it holds

$$\sup_{x, s, t} P(s, x, t, V_2(x)) = o(1)$$

where $x \in X$; $s, t \in [0, c]$, $0 < t - s \leq h$ and $V_\varepsilon(x) = \{y: g(x, y) \geq \varepsilon\}$.

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Theorem 3.1: Let x_t be a Markov process in the locally compact and σ -compact space X , $\mathcal{A}_t$ system of compact open sets; let the condition $\mathcal{Q}$ be satisfied. In order that $P(L_i) = 1$ ($i=0,1,2$), it is necessary and sufficient that the condition $\mathcal{A}_1$ is satisfied.

Theorem 3.2: Let x_t be a Markov process, the transient function of which satisfies $\mathcal{J}$. Then the validity of the condition $\mathcal{M}(X, \delta)$ for every $\delta > \varepsilon$ is necessary and sufficient that $P(L^t) = 1$; $\mathcal{M}(X)$ is necessary and sufficient that $P(L) = 1$.

Let $f(x)$ be a $\mathcal{B}$ -measurable function on X and

$$T_t f(x) = \int_X P(t, x, dy) f(y) .$$

The stationary transient function is said to satisfy the Feller condition, if for every continuous bounded $f(x)$ ($x \in X$) and arbitrary constant $t > 0$ the function $T_t f(x)$ is continuous.

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Condition N: $P(t, x, U_\varepsilon(x)) = o(1)$, $t \rightarrow +0$ for every $x \in Y$, $\varepsilon > 0$.

Theorem 3.3: If the transient function satisfies the Feller and the $\mathcal{R}$ condition, if X is locally compact and $\mathcal{G}$ -compact and if the elements of $\mathcal{A}$ are compact, then it holds $P_x(L_1) = 1$ for every $x \in X$ if and only if $\mathcal{N}$ is satisfied and

$$\int_0^{c-h} P_x \{x_t \in U, x_{t+h} \in V\} dt = o(h), h \rightarrow +0$$

for all $x \in X$, $U \in \mathcal{A}$, $V \in \mathcal{B}$ ($\mathcal{G}(U, V) > 0$).

Let

$$\varphi_\varepsilon(U, h) = \sup_{x, s, t} P(s, x, t, V_\varepsilon(x))$$

where $x \in U$; $s, t \in [0, c]$, $0 < t - s \leq h$.

Theorem 3.5 (communicated by Ye. B. Dynkin): Let x_t be a Markov process, and for every $U \in \mathcal{A}$ and $\varepsilon > 0$ let $\varphi_\varepsilon(U, h) = o(h)$, $h \rightarrow +0$, then

$$P(L_1) = 1.$$

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C 111/ C 333

Continuity conditions of ...

The paper contains 17 lemmata, 24 theorems (two of which are concerned with cut-off Markov processes) and a number of conclusions. X

A. N. Kolmogorov is mentioned in the paper. The author thanks Yevgeniy Borisovich Dynkin for advices.

There are 4 Soviet-bloc and 4 non-Soviet-bloc references. The four references to English-language publications read as follows: J. L. Doob, Veroyatnostnyye protsessy [Stochastic processes] M., JL, 1956; J. R. Kinney, Continuity properties of sample functions of Markov processes, Trans. A. M. S., 74, (1953), 280-302; D. Ray, Stationary Markov processes with continuous paths, Trans. A. M. S., 82 (1956), 452-493; P. Halmos, Teoriya mery [Measure theory] M., J. L, 1953.

SUBMITTED: March 26, 1959

Card 12/12

SEREGIN, L.V.

Two types of discontinuity of trajectories of Markov processes.
Dokl. AN SSSR 150 no.6:1232-1234 Je '63. (MIRA 16:8)

1. Predstavleno akademikom A.N.Kolmogorovym.
(Markov processes)

SEREGIN M. P.

ISAKOV, I.S., prof., admiral flota v otstavke, otv.red.; SHULEYKIN, V.V., akademik, inzh.-kapitan 1 ranga, zamestitel' otv.red. po II tomu; DEMIN, L.A., dotsent, kand.geograf.nauk, inzh.-kapitan 1 ranga, glavnyy red.; ABAN'KIN, P.S., admiral, red.; VIZE, V.Yu., red.; GERASIMOV, I.P., red.; GLINKOV, Ye.G., inzh.-kontr-admiral, red.; DROZDOV, O.A., prof., doktor geograf.nauk, red.; ZOZULYA, F.V., vitse-admiral, red.; PAVLOVSKIY, Ye.N., akademik, general-leytenant meditsinskoy sluzhby, red.; POGOSYAN, Kh.P., prof., doktor geograf.nauk, red.; RUDOVITS, L.F., doktor geograf.nauk, red.; SKORODUMOV, L.A., kontr-admiral, red.; SHIRSHOV, P.P., akademik, red. [deceased]; BASHILOV, G.Ya., inzh.-kapitan 2 ranga, uchenyy sekretar'; SEREGIN, M.P., kapitan 1 ranga, red.kart; RYABCHIKOV, S.T., podpolkovnik, red.kart; YEGOR'YEVA, A.V., kand.geograf.nauk, red.kart; AVER'YANOVA, P.S., kand.geograf.nauk, red.kart; BUGORKOVA, O.S., red.kart; GAPONOVA, A.A., red.kart; DMITRIYEVA, T.V., red.kart; DOTSENKO, Ye.I., red.kart; KONYUKOVA, L.G., red.kart; KOMLOVA, Ye.N., red.kart; LUKANOVA, L.S., red.kart; SMIRNOVA, V.G., kand.geograf.nauk, red.kart; CHECHULINA, Ye.P., red.kart; SHKOL'NIKOV, A.M., red.kart; GRIN'KO, A.M., tekhn.red.; IVANOVA, M.A., tekhn.red.; MOROZOVA, A.F., tekhn.red.

[Marine atlas] Morskoi atlas. Otv.red.I.S.Isakov. Glav.red. L.A. Demin. Izd. Morskogo general'nogo shtaba. Vol.2 [Physical geography] Fiziko-geograficheskii. Zamestitel' otv.red. po II tomu V.V. Shuleikin. 1953. 76 maps. (MIRA 12:1)

1. Russia (1923- U.S.S.R.) Voenno-morskoye ministerstvo. 2. Chlen-korrespondent Akademii nauk SSSR (for Vize, Gerasimov).
(Ocean--Maps) (Harbors--Maps)

SEREGIN, M. P.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Isakov, I. S.	"Marine Atlas" (Vol 11)	Geographical Society
Skuleykin, V. V.		of the USSR, Academy
Demin, L. A.		of Sciences USSR
Vorob'yev, V. I.		
<u>Seregin, M. P.</u>		
Yegor'yeva, A. V.		
Smirnova, V. G.		
Kudryatsev, M. K.		
Babakhanov, A. O.		
Rudovits, L. F.		
Volkov, F. G.		
Salishchev, K. A.		
Orlov, B. P.		
Kalesnik, S. V.		
Shvede, Ye. Ye.		
Snezhinskiy, V. A.		
Pogosyan, Kh, P.		
Drozdov, O. A.		

SO: W-30604, 7 July 1954

[P.]
SEREGIN, M.: TRUBYACHINSKIY, N.

The use of buoys for determining the speed and direction of
currents. Mor.flot 16 no.2:26-27 F '56. (MLRA 9:5)
(Ocean currents)

SEREGIN, Mikhail Petrovich; MESHKOV, O.I., red.; USANOVA, N.V.,
tekhn. red.

[Navigational methods of calculating the elements of tides
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mentov priliva i prilivo-otlivnykh techenii. Moskva, Izd-vo
"Morskoi transport," 1963. 133 p. (MIRA 16:7)
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KURDINOVSKIY, G.; SEREGIN, N.

Scouts of the earth's crust should have modern machinery. Okhr.
truda i sots. strakh. 3 no.9:15-17 S '60. (MIRA 14:4)

1. Tekhnicheskiye inspektora Tsentral'nogo komiteta profsoyuza
rabochikh geologorazvedochnykh rabot.
(Boring--Safety measures)

SEREGIN, N. (G.Kaluga)

Improvement of public areas and services in Kaluga. Zhil.-kom.
khoz. 10 no.8:9-10 '60. (MIRA 13:9)
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SEREGIN, N.

Prospectors of mineral wealth exchange experience. Okhr.truda i
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rabochikh geologorazvedochnykh rabot.
(Geological surveys--hygienic aspects)

SEREGIN, N.G., starshiy master.

Automatic scheme for preventing the burning of the coils of switch solenoids.
Energetik 1 no.3:17-18 Ag '53. (MIRA 5:8)
(Solenoids)

SEREGIN, N.G.; ROMANCHENKO, I.F.

Veterinary workers of Tula Province in the campaign to increase livestock production. Veterinariia 35 no.5:23-28 My '58.

(MIRA 12:1)

1. Zamestitel' predsedatelya Ispolkoma Tul'skogo oblastnogo Soveta deputatov trudyashchikhsya (for Seregin).
 2. Nachal'nik veterinarnogo otdela Oblsel'khozupravleniya (for Romanchenko).
- (Tula Province--Veterinary medicine)

AUTHOR: Seregin, N.M. SOV-132-58-8-13/16

TITLE: Consultation on Payment of Field Allowance during the Temporary Incapacity to Work (Konsul'tatsiya o poryadke vyplaty polevogo dovol'stviya v period vremennoy netrudosposobnosti)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 8, pp 57-58 (USSR)

ABSTRACT: Answers are given to some financial problems of workers.
1. Labor--Attitudes 2. Employee relations---USSR

Card 1/1

AUTHOR: Seregin, N.M. SOV/132-58-12-12/14

TITLE: A Consultation on Problems of Labor Protection, Social Insurance and Old Age Pension (Konsul'tatsiya po voprosam okhrany truda, sotsial'nogo strakhovaniya i pensionnogo obespecheniya)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 12, pp 54-56 (USSR)

ABSTRACT: The author replies to problems on cases of labor protection, social insurance and old age pension.

ASSOCIATION: TsK profsoyuza geologorazvedochnykh rabot (The Central Committee of the Geological Prospecting Trade Union)

Card 1/1

DUNAYEV, M.; MARD'YANOV, V.; POLYAKOV, A., slesar'; SEREGIN, P.,
vedushchiy inzhener-tekhnolog

Frankly speaking. Izobr.i rats. no.7:12-13 J1 '59.
(MIRA 12:11)

1. Rationalizatory Ural'skogo avtomobil'nogo zavoda, g.Miass.
2. Brigadir slesarey Ural'skogo avtomobil'nogo zavoda (for Dunayev).
3. Starshiy kontroler otdela tekhnicheskogo kontrolya Ural'skogo avtomobil'nogo zavoda (for Mard'yanov).
(Ural Mountain region--Automobile industry)

KLASSEN, V.I.; PIKKAT-ORDYNSKIY, G.A.; VENKOVA, M.D.; ZHENDRINSKIY, A.P.;
MATVEYENKO, N.V.; GORODETSKIY, M.I.; YEGIZAROV, A.A.;
PECHENKIN, V.V.; SEREGIN, N.V.; KEPP, G.A. YATSENKO, N.N.

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the flotation of ores. TSvet. met. 36 no.4:7-13 Ap '63.
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(Flotation—Equipment and supplies)